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07/13/99

# ALBION-SHERIDAN TOWNSHIP LANDFILL MICHIGAN

EPA ID# MID980504450

**EPA REGION 5**

Calhoun County  
1 mile east of Albion

**7<sup>th</sup> Congressional District**

Last Updated: February, 1998

## Site Description

The Albion-Sheridan Township Landfill site is an inactive landfill located approximately one mile east of Albion, Michigan, on the eastern edge of Calhoun County. One mile west is the city of Albion - population of 10,066. A combination of residential, agricultural, commercial, and industrial properties surrounds the Albion-Sheridan Township Landfill. Test pitting conducted by the Michigan Department of Natural Resources (MDNR) uncovered one area of concentrated drum disposal where 200 to 400 drums are present. MDNR test results show that some of the drums contain liquid and solid wastes and suspected paint sludges, including up to 2.7 ppm arsenic, 730,000 ppm 1,2,4-trimethyl benzene, 40,000 ppm m/p-xylene, 6,500 ppm acetone and 2,400 ppm aluminum. A leachate plume extends southwest of the landfill for at least 900 feet and extends vertically to a depth of approximately 45 feet below the water table. The major portion of the plume appears to be discharging to the North Branch of the Kalamazoo River

The U.S. Environmental Protection Agency (USEPA) initiated the Remedial Investigation/Feasibility Study (RI/FS) in January, 1992. A Record of Decision (ROD) was signed in September, 1995, which required: removal and off-site treatment and disposal of drums which contain hazardous and liquid wastes and other drums encountered during grading of the landfill surface; Construction of a solid waste landfill cover (cap) over the entire landfill mass; use of institutional controls on landfill property to limit both land and groundwater use and on adjacent property to limit only groundwater use until the clean-up standard is attained (estimated at 14 years); installation of an active landfill gas collection system including flaring to treat the off-gas from the landfill, unless USEPA approves passive venting following design studies; monitoring of groundwater to ensure effectiveness of the remedial action in lowering the arsenic concentration in groundwater through natural oxidation.

The following contingent remedy for groundwater treatment is also selected for the site: Treatment of groundwater by in-situ oxidation if, five years after landfill cap installation, the arsenic contamination in the groundwater is not declining at the specified rate or if contamination threatens residential wells.

**Site Responsibility:** This site is being addressed through Federal and potentially responsible parties' actions.

### NPL LISTING HISTORY

Proposed Date: 06/24/88

Final Date: 10/04/89

## Threats and Contaminants

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The groundwater and soil are contaminated with arsenic, iron, barium, and manganese. Various organic chemicals and heavy metals are contained in the landfill. Possible health threats include direct contact with or accidental ingestion of contaminated soils or groundwater.

## Cleanup Progress

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On March 19, 1990, USEPA issued a Unilateral Administrative Order (UAO) to five potentially responsible parties (PRPs). Later in 1990, two PRPs removed approximately 46 drums from the surface of the landfill. Twenty-two of these were overpacked and sent to an off-site facility for incineration. The remaining 24 drums were crushed and sent to a Type 2 landfill. A UAO was issued to four respondents, including the city of Albion, Michigan in October, 1995, requiring the design and implementation of a cap at the site. Two of the four PRPs have initiated design activities at the site.

The final design was approved on September 4, 1997, and the Remedial Action (RA) commenced in November, 1997. The first phase of the RA (drum removal) was completed on December 17, 1997. The final phase of the RA (landfill cap construction) will begin in the third quarter of FY 1998 and the construction should be completed by the fourth quarter of FY 1998 on April 21, 1999. As of July 13, 1999, the rough grading, passive gas vent trenches, and the foundation layer have been completed. The prefinal inspection is scheduled for September 7, 1999 and construction is expected to be complete by that time.

## Contacts

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